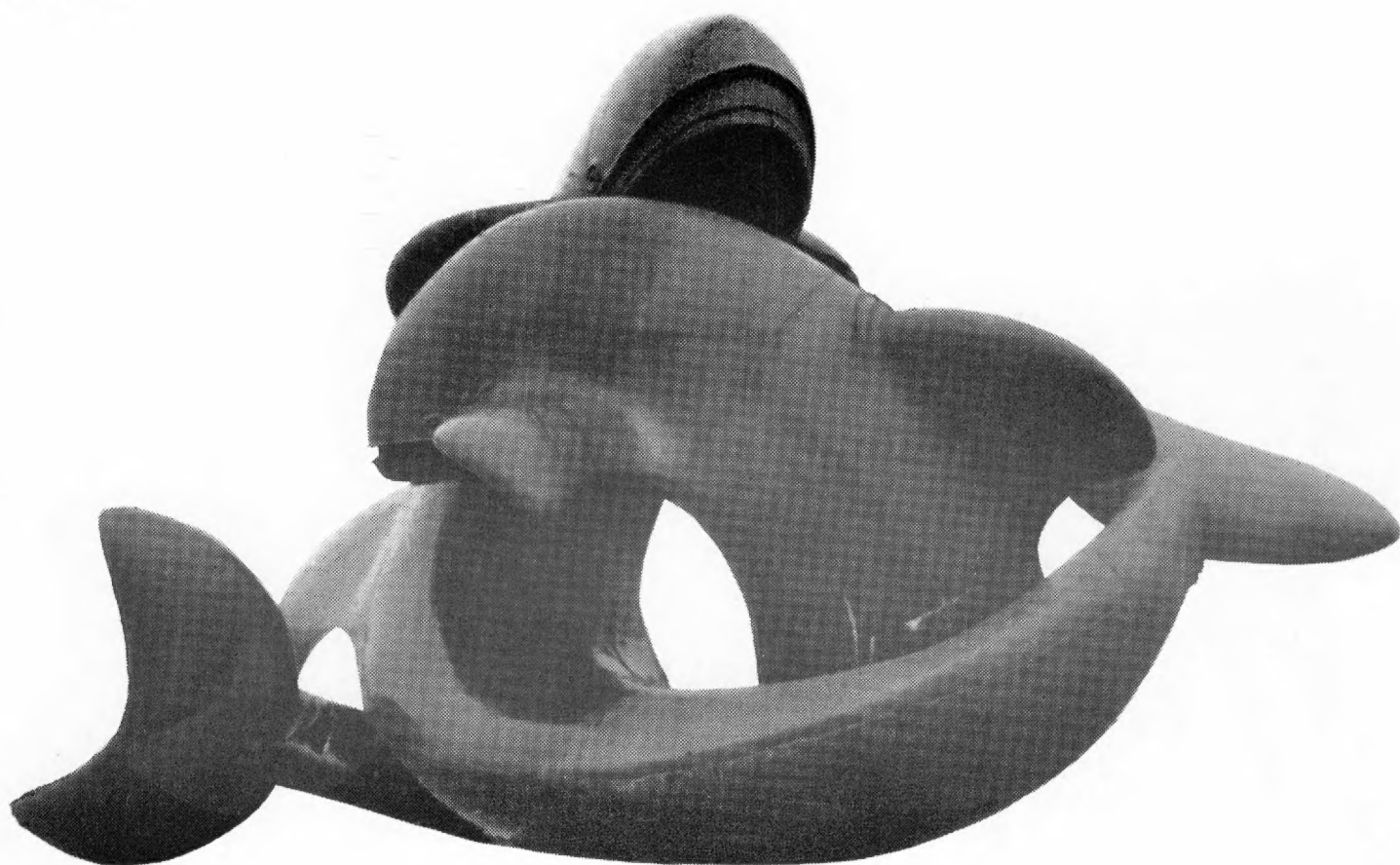


ANNUAL REPORT

1960



CALIFORNIA ACADEMY OF SCIENCES

GOLDEN GATE PARK

SAN FRANCISCO 18, CALIFORNIA

CALIFORNIA ACADEMY OF SCIENCES
GOLDEN GATE PARK
SAN FRANCISCO 18

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Ornithology and Mammalogy.....	ROBERT T. ORR, <i>Curator</i>
Exhibits.....	MEARL F. CARSON, <i>Curator</i>
Library.....	VERONICA J. SEXTON, <i>Librarian</i>
Morrison Planetarium.....	GEORGE W. BUNTON, <i>Manager</i>
Pacific Discovery.....	DON GREAME KELLEY, <i>Editor</i>
Public Relations.....	HAL RICHARDSON
Steinhart Aquarium.....	EARL S. HERALD, <i>Curator</i>
Television.....	BENJAMIN DRAPER, <i>Executive Producer</i>

*As of July 1, 1960

CALIFORNIA ACADEMY OF SCIENCES

The Science Museum • The Alexander F Morrison Planetarium

The Steinhart Aquarium • J. W. Mailliard, Jr., Library

Golden Gate Park, San Francisco 18, California



August, 1960

TO THE MEMBERS AND FRIENDS CALIFORNIA ACADEMY OF SCIENCES:

The California Academy of Sciences has just completed its 107th year—the seventh year of its second century of existence.

The period since my last report has been an important period of progress. Highlights of events and achievements reported upon in full detail in our Director's report that follows include:

The completion and dedication of a new building, including the J. W. Mailliard, Jr., Library, the Alice Eastwood Hall of Botany, and the Norman B. Livermore Room. They take their place alongside the Academy's Steinhart Aquarium, Morrison Planetarium, North American Hall, the Simson African Hall and the Hall of Sciences.

Public attendance reached a new high of 2,598,291, 10% greater than during the previous twelve months. Only two other museums in the United States have as large an annual attendance as that of the California Academy of Sciences.

Continued achievements of the scientific staff acknowledged by distinctions and awards.

But of even greater significance for the second century ahead was the continuation of the all-inclusive study of the Academy's objectives, facilities and organization initiated three years ago and mentioned in the last report.

It is to be remembered that in the span of its first century, the Academy has evolved from a simple association of men with a common interest in the natural sciences to a complex institution with many additional facets—its exhibit halls, its expeditions, the Aquarium, a television program, its Planetarium, to mention its major activities—all of which are coordinated from its headquarters in San Francisco's Golden Gate Park.

The study made it amply evident that the Academy had long outgrown its organizational structure—that changes should be made to cope with the spectrum of its present operations.

The former Science Council has been merged into an enlarged Board of Trustees to better centralize this direction. Standing committees, under the direction of the President, the Vice Chairmen and the Treasurer, have been created to which have been delegated guidance of major divisions of activities.

The post of Associate Director has been created, to which has been assigned many of the multitude of operating responsibilities, thereby relieving the Director of such duties and minimizing the diversion of his efforts from scientific pursuits. To fill this post, the Academy is fortunate in having obtained the services, effective July 1, 1960, of Dr. Joel F. Gustafson. Until he assumed these new responsibilities, Dr. Gustafson was an Associate Professor of Biology at San Francisco State College, and Executive Secretary of the San Francisco Zoological Society, of which he is one of the founders.

These major organizational changes have now been completed.

In the meantime the Trustees have continued their program to strengthen the Academy's financial position by broadening the base and by increasing its membership. In this connection, the Trustees are particularly indebted to various members of the Academy who have served as Sponsors. Business organizations and individuals have responded with much appreciated financial support. During the past two years, 109 corporations, business organizations, and foundations made substantial donations, as compared with only a very minor number before that. As of June 30, the Academy had 2,317 members. This, including corporate donors, represented an increase of 380 or 19.5% during the past twelve months. This is the largest numerical and percentage increase in membership during any one year in the Academy's history. This increase, while encouraging, is, however, only a beginning because in relation to the size of the community and the great contributions being made to science by the Academy, the membership should be substantially larger.

The increased income and anticipated future income from these various sources permitted the Board of Trustees of the Academy to revise salary schedules of the scientific staff to more adequately compensate these highly qualified and trained scientists for the valuable services they perform—services which have brought and are continuing to bring great credit not only to the individuals themselves, but also to the Academy as a leader in scientific and educational endeavors.

Much remains to be done. It is still our firm belief that—as reported in our last message—the real solution to the Academy's problems of finances and of future growth depends upon the people of San Francisco and the Nation. It depends upon their appreciation of the Academy's work and the extent to which they will give their support, both morally and financially. It is the intent of the Trustees to see that the Academy and what it does is properly presented to the community so that the community can make its decision.

During the year there have been changes: Dr. A. Starker Leopold became President of the Academy last October succeeding Dr. Ira L. Wiggins, who had so faithfully served since 1954, and whose advice will remain available to the Board. As part of the program of strengthening the Academy's leadership, Brooks Walker was elected a Vice Chairman of the Board to serve jointly in that capacity with J. W. Mailliard, III.

It is with deep personal sorrow that I report the death of Edward E. Hills, who served as Trustee from 1946 to 1959. His unusual interest in the natural sciences was dramatized when after his death it was found that he had bequeathed to the Academy his very rare and extremely valuable library in the field of botany and ornithology.

This spring Dean Witter, who had been a most enthusiastic and valued Trustee since 1950, indicated a desire to retire. His resignation was accepted with sincere regrets.

To fill these vacancies, the Board elected as Trustees Victor J. Bergeron, international renowned restaurateur, and Marco F. Hellman, one of the Pacific Coast's distinguished civic leaders and investment bankers.

During this year, the post of Honorary Trustee was created. This is limited to Trustees "... who previously, while members of the Board, have rendered extraordinary services to the California Academy of Sciences." In addition to being a means of honoring Trustees for extraordinary services rendered, the creation of Honorary Trusteeships provides a means of more actively retaining the advice and counsel of Trustees who have finished their active service.

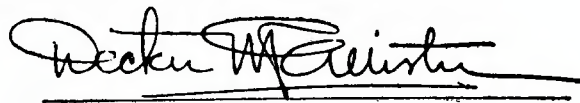
Decker G. McAllister, Chairman, Board of Trustees, and Dr. Robert C. Miller, Director of the Academy, congratulated Francis P. Farquhar on his election as the Academy's first Honorary Trustee.



As a mark of respect and in appreciation of his many valued services over the years, Francis P. Farquhar was elected, on March 21, 1960, the first Honorary Trustee in the Academy's history. He originally became a member over 35 years ago; served as a Trustee from 1938 to 1953; as Treasurer from 1938 to 1950, and as President of the Academy from 1950 to 1953. Later four other former Trustees, each of whom had in his way contributed importantly, were elected Honorary Trustees: Bruce Cornwall, Daniel E. Koshland, Charles Page and Dean Witter.

May I express particular appreciation for the support given by the entire membership of the Board who have unstintingly given their time and effort when the occasion demanded. It is because of this that I can report with confidence substantial progress since the last report—the Academy has moved ahead.

As we look into the coming year, the Board of Trustees has great confidence in the Academy's highly qualified and talented staff. It anticipates that with increasing recognition of what the Academy has been quietly accomplishing, there will be continued and expanding support from the City of San Francisco, from its business organizations, members, friends, and foundations; and that needed funds will become available to adequately finance the Academy's highly improved and steadily increasing educational programs, as well as the Academy's research programs in its chosen field of the natural sciences.



DECKER G. MCALLISTER
Chairman, Board of Trustees

(Top opposite) Curator Dr. E. S. Ross and Massai assistant collecting insects in Kenya, Africa.

(Bottom opposite) Mouse Lemur, one of the interesting nocturnal animals of Madagascar.

*These color reproductions were printed at the California Academy of Sciences.
For details see page 24.*



REPORT

By

ROBERT C. MILLER, DIRECTOR
CALIFORNIA ACADEMY OF SCIENCES

The completion of the Academy's new wing in the fall of 1959 further advanced the Academy's dual purpose of public education and scientific research.

When in April, 1853, seven men met and discussed the formation of what has become the California Academy of Sciences, they had three basic objectives, namely the investigation and development of the natural sciences, the gathering together of museum collections and the establishment of an outstanding scientific library.

Throughout the past century the Academy has pursued these objectives. During the past year with the completion of the new wing housing the J. W. Mailliard, Jr., Library, the Alice Eastwood Hall of Botany and the Norman B. Livermore Room, its facilities have been rounded out so that today the Academy is better equipped than ever before to fulfill its stated role.

These new buildings, just as the Museum exhibit halls, the Steinhart Aquarium and the Morrison Planetarium, would not have been required solely for the investigation of science. They all provide the framework within which the Academy's broad scientific educational programs are developed and presented.

More than two and one-half million persons visit the Academy annually.



ATTENDANCE

The attainment of the Academy's dual purpose has provided the people of San Francisco, California and the nation with one of the great scientific educational institutions in the world. In fact, the Academy is the only institution in the United States that within a single physical plant has a science museum, a planetarium and a free public aquarium. Together they constitute one of San Francisco's outstanding tourist attractions, as a large percentage of its two and one-half million annual visitors come from outside San Francisco.

The popularity of the Museum maintained by the Academy is clearly demonstrated by its attendance which averages about 7,000 a day with a peak of over 20,000 on special occasions.

Attendance for the year ending June 30, 1960, was 10.2% greater than the previous 12 months. The totals were:

<i>Year</i>	<i>Attendance</i>
1959	2,356,172
1960	2,598,291

DEDICATION OF NEW WING

Fulfilling its original purpose for the advancement of scientific knowledge, the scientific departments work quietly, out in the field, in the laboratory or in the collection rooms. The new wing dramatizes the duality of the Academy's objectives. The Alice Eastwood Hall of Botany and the Norman B. Livermore Room serve the citizens of the community, while the Mailliard Library and the new Herbarium quarters are primarily for students of science.

At the dedication of the new wing in October, 1959, Dr. Robert Gordon Sproul, President Emeritus of the University of California, eloquently summarized the Academy's current position and future in the following words:

"Here in the midst of our beautiful Golden Gate Park, in buildings planned well both in form and function, and with an excellent staff . . . the Academy has long since deserved and won its present world-wide fame as an educational and scientific center with a reputation for both pioneer efforts and notable achievements; and especially for the stimulus it offers youth to learn the facts of science, to become acquainted with its theories, and to think creatively about its problems yet to be solved. In this year 1959, every educational institution in California, including our great State University, looks to this Academy for information and advice and assistance in its related fields of scientific investigation . . .

". . . the Academy truly brings to us conveniently an intimate, reliable description in words and pictures of many of the wonders of the great outdoors, in our own State and elsewhere, and of almost the entire world of science. From the countless islands of the Pacific and its encircling lands,

teeming with populations of many races and colors, the Academy makes available to us, Californians and visitors alike, a greater knowledge and better understanding of man and his physical environment. By means of its distinguished television program, *Science in Action*, its more than 200,000 scientific and technical books and documents in its library, its great animal, insect and plant collections, its Steinhart Aquarium and Morrison Planetarium, it is today truly outstanding among institutions of its kind.

“By its exhibits, displays and popular publications, it has done much to raise the level of man’s understanding of science, and to help him to relate its phenomena to his own experiences, and thus improve both his daily living and his prospects of survival . . .

“The amazing growth of the California Academy of Sciences must not stop with what we celebrate here today, for the need will never cease for



The Alice Eastwood Hall of Botany, opened this past year, was made possible by donations received from her worldwide friends.

what this institution means to our community, and indeed to the civilized world . . .

“Each of us may, under this prescription, continue to enjoy the effects of the marvelous contagion that has stimulated our predecessors to bring the Academy to the high point it has now attained, some with pennies and some with dollars, but all with right good spirit.”

EDWARD E. HILLS RARE BOOK COLLECTION

The Academy's Library, which is under the supervision of Miss Veronica J. Sexton as Librarian, is to be greatly enriched by the addition of the late Edward E. Hills collection of 18th and 19th century rare books in the field of botany and birds, which was bequeathed to the Academy when Mr. Hills died in November, 1959.

While an inventory of the entire contents of this collection has not been received by the Academy, it is known that one of the outstanding items is Audubon's "The Birds of America." This is the elephant folio edition (1827-1835) and this copy has an interesting history, according to Miss Veronica Sexton. It was originally the property of Mark Hopkins. It was housed with the San Francisco Art Association which occupied the old residence of Mark Hopkins on Nob Hill.

At the time of the earthquake and fire in 1906, the San Francisco Police and Fire Departments took the set into custody for safe keeping. Their stamps are to be seen as they placed them on pages of the volume explaining the circumstances of their rescue. The set was returned to the San Francisco Art Association where it remained in storage until some time between 1939 and 1940 when Mr. Hills purchased it.

BAJA CALIFORNIA RESEARCH PROGRAM

During the past year the Academy under the general guidance of Dr. Ira L. Wiggins, backed by grants from the Belvedere Scientific Fund, commenced one of the most far-reaching research projects undertaken in recent years. Dr. Wiggins is the past President of the Academy and Professor of Botany, Stanford University. Commenting upon this program which is designed to develop a full understanding of the natural history of the Baja California Peninsula, an objective held by the Academy since its first expeditions to this area in the 1880's, Dr. Wiggins has stated:

“Tomorrow, next year or a decade hence a plant, animal or mineral native to Baja California may supply an important drug, an answer to a physiological puzzle, or a substance of vital importance to interplanetary travel. The Academy's Baja California project, by gathering together all available published information and comprehensive collections all in one place, is trying to supply basic information about such potentialities by working in coopera-

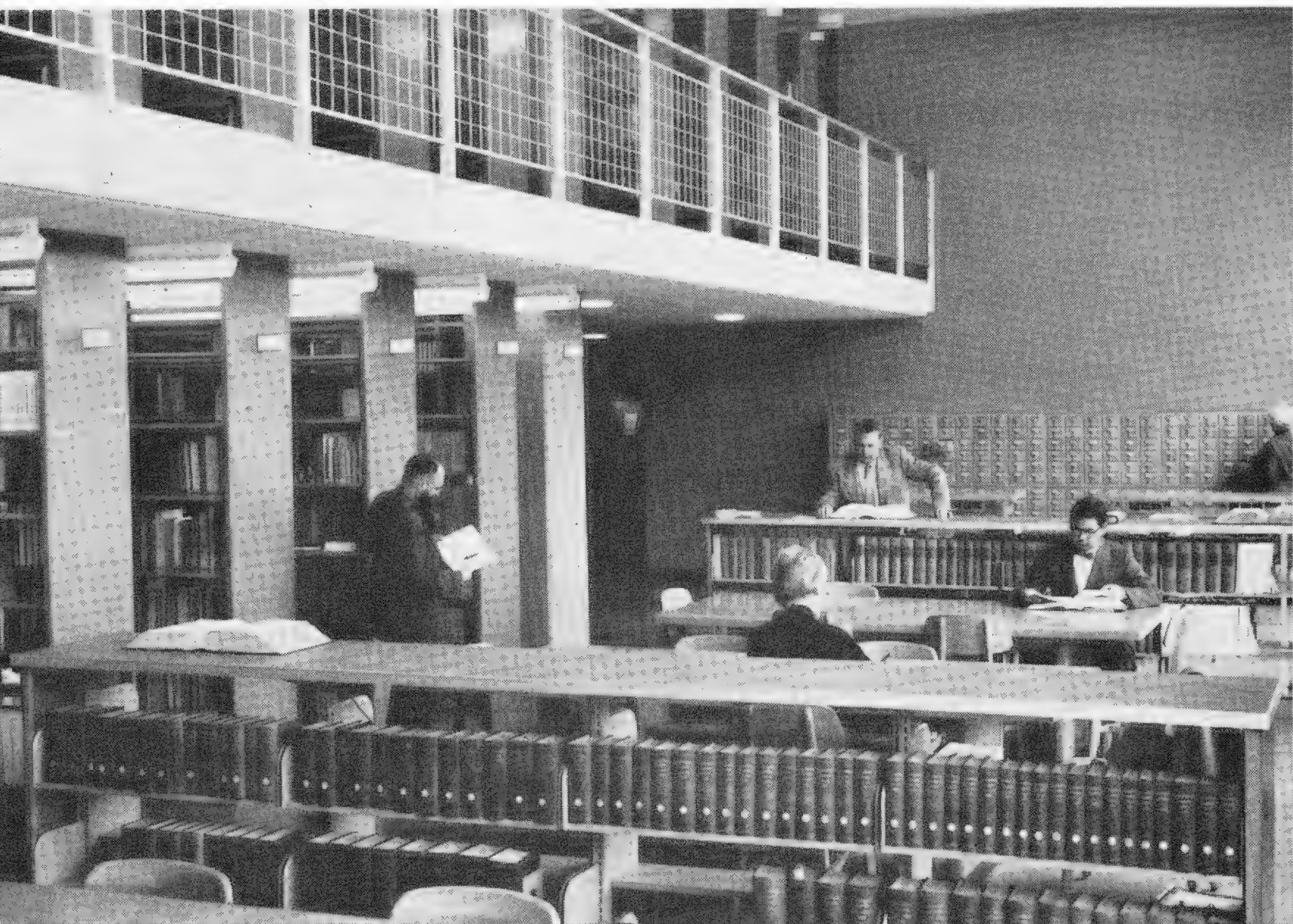
tion with Mexican scientists striving towards similar goals. No one knows what the Peninsula holds until exhaustive exploratory field work has been done. The Academy hopes some day that it will become the world's outstanding source of information on Baja California, comparable to the position it today holds in connection with the Galapagos Islands.

"It is fortunate that this program has been commenced now before the area becomes too populated. It is still practically untouched by man.

"During 1959 the California Academy of Sciences sent three collecting expeditions to Baja California, Mexico, to obtain specimens of plants, insects, reptiles, fossils, land and marine shells. These trips by automobile, and two reconnaissance flights, resulted in major collections that enrich the scientific holdings of the Academy and of more than a dozen institutions with which exchanges are made regularly. All field work in Mexico is done under permits issued by agencies of the Mexican government, and representative specimens are sent to Mexican museums.

"The collections, and notes recorded in the field, contribute importantly toward full understanding of the natural history of the Peninsula. The new materials help replace valuable specimens collected in the 19th century but destroyed in the earthquake and fire of 1906. They also partially fill gaps in

J. W. Mailliard, Jr. Library houses more than 200,000 scientific and technical books and documents, one of the outstanding scientific collections in the nation.



previous knowledge because in 1959 field workers operated in several areas not covered by earlier investigators. Field workers in 1959 discovered over a dozen snails, insects, fossils and plants hitherto unknown to science and obtained data on poorly understood organisms. Adequate collections of several species only meagerly represented previously were secured.

“Information supplied by these field observations and by study of the specimens obtained contributes importantly toward an understanding of the Peninsula, its natural resources, and of the friendly people who reside there. The field work contributes new facts about the plants and animals native in the area, the ways in which they influence, and are influenced by, man and his activities, and helps to build an inventory of the Peninsula’s physical, biological, and cultural characteristics. It provides at least a partial key to an understanding of the potentialities of the area for agriculture, forestry, animal husbandry, fisheries, recreation, industry and mining. With data already at hand and with that obtainable in the near future, the Peninsula’s natural resources can be evaluated and aid given toward their conservation and proper use.

“The field work completed in 1959 and 1960, coupled with that planned for the future, adds, and will add, to the stockpile of scientific, general and cultural information against which the present and future generations can draw freely.”

PLANETARIUM

Ever since the Alexander F. Morrison Planetarium was opened in November, 1952, it has been another major attraction. During the past 12 months, eight different programs arranged under the direction of George W. Bunton, Manager of the Planetarium and Curator of the Academy’s Department of Astronomy, were presented; 65,218 adults and 35,723 children attended 726 regular performances and 52,898 persons witnessed 153 special students’ programs. Of those attending the special school programs, 13% were from San Francisco, 15% from the Peninsula, 7% from Alameda County, 5% from Marin County, and most of the balance, or about 60%, from other parts of California, Oregon and Nevada.

NATIONAL SCIENCE FOUNDATION GRANTS

During the past year the Academy’s research program benefited by three grants from the National Science Foundation.

The first, amounting to \$90,000, was for the arrangement and improvement over a three-year period of the Academy’s extensive collections in entomology.

The Academy’s research collection of insects and related arthropods gathered together since the Department of Entomology was established in 1862 is one of the greatest concentrations of insect specimens on the North American

*School groups from
California, Oregon and
Nevada, annually attend
Planetarium
performances.*



Continent. It comprises some 2,500,000 mounted and labeled specimens and 1,125,000 additional specimens awaiting such preparation. The latter group, which will be made available for scientific study under this grant, includes specimens from far-off regions, many of which are currently inaccessible to western scientists, such as China, Mongolia, Manchuria and the Congo.

The Department's laboratory is the only place in the Western United States where so great an array of New World specimens may be studied with comparative material from other major faunal areas in the world. These specimens are of utmost value to scientists not only in local universities, but also are referred to by other institutions and scientists throughout the world.

The second grant, amounting to \$18,000 over a three-year period, was to support research by the Academy's Curator of Entomology, Dr. Edward S. Ross, entitled "Monographic Studies of the Insect Order Embioptera." The Embioptera (embiids, or web spinners) are perhaps the most closely related to termites and earwigs but have long evolved on their highly specialized tangent. They are considered to be very rare and are seldom encountered even by entomologists. They occur in tropical and warm temperate regions. Only three



A space trip to the moon via the Planetarium projector.

species are found in the West. Dr. Ross has discovered many new species in the tropics and believes that many more remain to be discovered.

In connection with this study, Dr. Ross and Mr. H. Vannoy Davis this past year made an expedition to Madagascar and parts of Africa. En route through Europe specimens were examined in the principal museums. During this expedition approximately 50,000 insect specimens representing species seldom found in any American insect collection were collected and sent back to the Academy; 50 specimens of reptiles and amphibians, most species of which were not previously in the Academy collections; 15 species of Madagascar marine shells for the research collection in the Department of Geology; 300,000-year-old stone axes and associated petrified bones; and, as an interesting incongruity, burial shrouds woven from the silk of tent caterpillar cocoons.

The third grant, also amounting to \$18,000 over a three-year period, is to enable the Academy's Curator of Geology, Dr. G. Dallas Hanna, who is one of the world's outstanding authorities on diatoms, to investigate diatom flora of the late Miocene and early Pliocene marine sediments of California. In connection with this project he will teach a graduate student the techniques, learned over the years, for studying diatoms. This project is considered of prime importance because today oceanographic institutes in the United States must turn to foreign technicians for authoritative experience in this field due to the lack of qualified United States personnel. The California Academy of Sciences' Library, furthermore, is one of the principal reference sources on micro-paleontology in the entire United States.

BAY AREA SCIENCE FAIR

The Seventh Annual Bay Area Science Fair held at the Academy this spring was the most successful to date. Some 350 scientific exhibits selected from over 6,000 projects which had been prepared by students in high schools of 12 Bay Area counties were presented. More than 88,000 persons visited the Fair during the five days it was open.

The Academy was honored to participate with the Bay Area Science Fair Advisory Board and to assist in the organization and presentation of this outstanding annual scientific educational project.

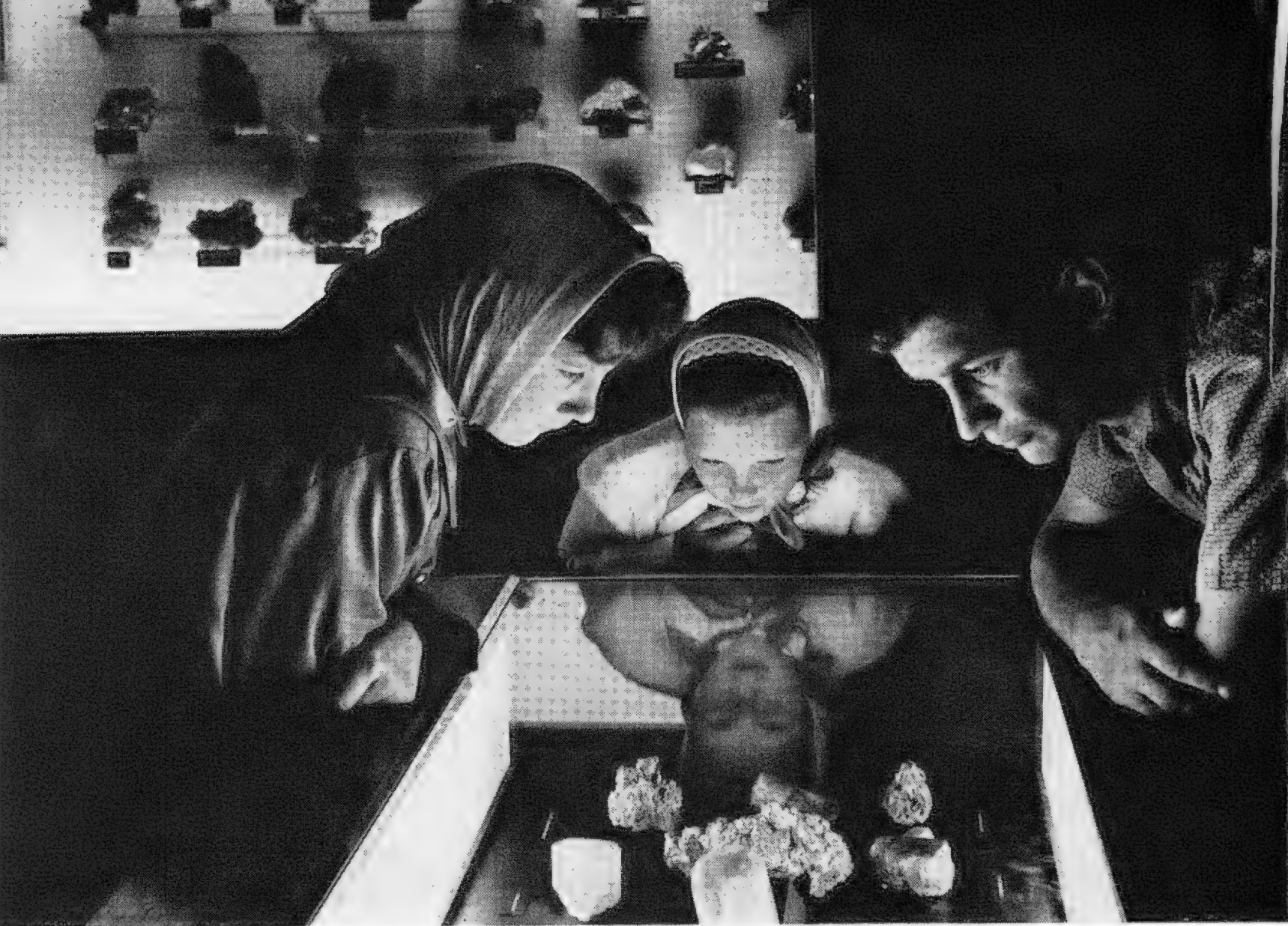
RESEARCH ON BIRDS AND MAMMALS

The Academy's program of research on birds and mammals of Mexico was continued under the direction of the Department of Ornithology and Mammalogy. The Curator, Dr. Robert T. Orr, completed a paper on the origin and affinities of the mammals of Baja California and continued his work on the birds of the Lake Tahoe region. The latter project was started some years ago by the late James Moffitt. Studies on the taxonomy and distribution of Olive and Grace Warblers, supported by a grant from the National Science Foundation, were pursued by a Research Associate, Dr. J. Dan Webster.

Under a U. S. Air Force grant, a University of California graduate student, William J. Hamilton, undertook a study on celestial orientation in birds. This involved controlled experiments on the ability of bobolinks to perceive sky patterns both under natural conditions and in the Morrison Planetarium where the star pattern may be changed.

DEPARTMENT OF BOTANY EXPANDS

With the completion of the Alice Eastwood Hall of Botany, the entire Department of Botany, of which John Thomas Howell is Curator, was rearranged and the herbarium of ferns and seed plants reorganized. For the first time in



Exhibits for all ages.

more than 25 years this major part of the herbarium is now adequately filed and catalogued in 108 new herbarium cases.

The Department continued its extensive studies of California flora as represented by both its wild plants and cultivated ornamentals, in connection with which numerous field trips were made.

The herbarium was the recipient, through the generosity of Mr. and Mrs. K. K. Bechtel, of an extensive collection of specimens collected by C. G. Pringle, chiefly in Mexico. The Academy lost its holdings of this Mexican collector in the 1906 earthquake and fire and until now it has had no opportunity to reacquire this important material. A preliminary check indicates that over 700, or more than one quarter of the total, represents species which the Academy has not had in its herbarium since the 1906 disaster.

FISHES OF THE PACIFIC

The Department of Ichthyology under the direction of W. I. Follett, Curator, accessioned some 31,000 specimens of fishes, mostly of California origin, including a number of rare species and nine specimens of the great white shark, or man-eater. Specimens were received from individual donors and from the

California Department of Fish and Game, whose continued cooperation with the Academy has been mutually beneficial. For osteological studies, a large number of specimens were X-rayed and others were prepared as disarticulated skeletons.

HERPETOLOGY COLLECTION REORGANIZED

With the completion of the new wing, new facilities were developed for the Department of Amphibians and Reptiles in the Science Building. This has enabled Dr. Alan E. Leviton, Assistant Curator, to instigate a program for the reorganization of the entire collection, consisting of more than 96,000 entries, of which over 5,000 specimens were added to the collection this past year.

DEPARTMENT OF INVERTEBRATE ZOOLOGY

During the late 1890's the Academy established a Department of Invertebrate Zoology. In recent years, however, this Department has been relatively inactive.

In recognition of the importance of invertebrates (animals without backbones) which embrace the greater part of the animal kingdom, the Academy



has reactivated this Department. The Board of Trustees believes that the Academy can play an important role by building up a large, well organized research and reference collection of aquatic invertebrates, emphasizing those found from Alaska to Central America. No such research collection now exists anywhere on the Pacific Coast. The Academy's collection will constitute a central repository for all research material in this broad field of science. Reactivation of this Department has been enthusiastically endorsed by neighboring colleges and universities which have indicated that a strong Department of Invertebrate Zoology at the Academy will fill an important gap now existing in the natural sciences.

The Trustees named Dr. Robert C. Miller, Curator, and Allyn G. Smith, Associate Curator, of this Department.

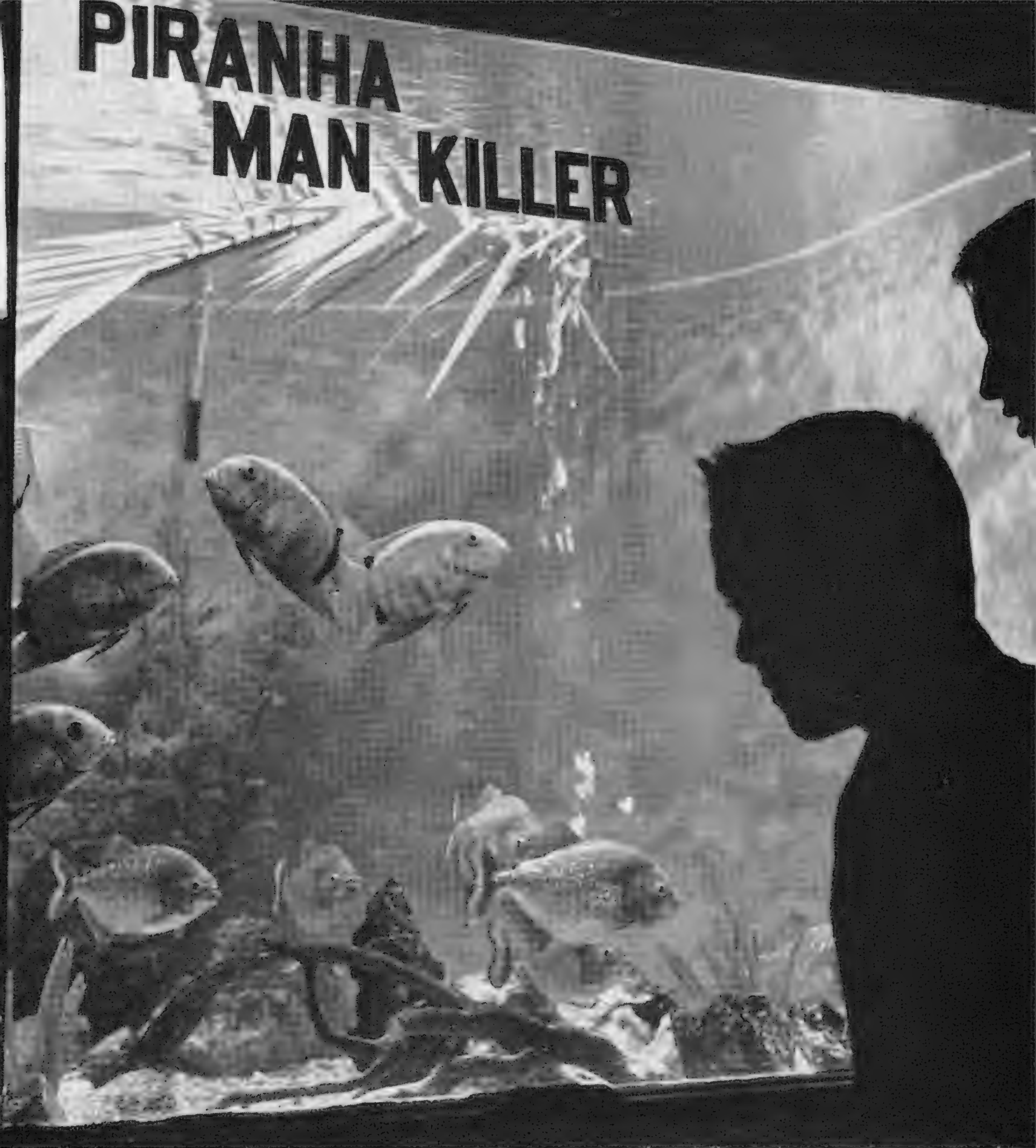


"Science in Action," the Academy's TV program, has just completed its tenth year as one of the nation's outstanding scientific programs.

"SCIENCE IN ACTION"

The renowned TV series "Science in Action," owned and produced by the California Academy of Sciences, with Benjamin Draper as Executive Producer, continued to receive broad acclaim and maintained for the tenth consecutive year its extremely high viewer rating. Dr. Earl S. Herald, the Academy's Curator of Aquatic Biology, completed his eighth year as Program Host for the series.

One of the oldest television shows on the air, it has been sponsored in Northern California since its inception by the Wells Fargo Bank American Trust Company and is one of the few scientific informational programs in the entire country that is a sponsored commercial vehicle. It is also seen in Honolulu with Hawaiian Telephone Company as sponsor and is currently being offered through syndication in other markets.



STEINHART AQUARIUM REHABILITATION PROGRAM

The program initiated two years ago, providing for the complete rehabilitation of the Steinhart Aquarium by the City and County of San Francisco with funds totaling \$1,575,000, authorized by the people of San Francisco in a bond issue, came closer to reality. Final plans were completed under the direction of the City Architect, bids were obtained and the details and schedules for the actual rehabilitation are about to be approved.

During the first nine months of the rehabilitation about one quarter of the Aquarium, according to Dr. Earl S. Herald, Curator of the Academy's Department of Aquatic Biology and the Steinhart Aquarium, will be closed to the public. During the second stage, which will cover the next nine months, almost the entire Aquarium will be closed.

STUDENT SECTION

The Academy endeavors to stimulate the youth of today, the leaders of tomorrow, to obtain a better appreciation and understanding of the natural sciences. During the past year some 80 Bay Area junior and senior high school students have taken part in the student activities. The success of this program over the years has been dramatized in many instances and is illustrated by the fact that many young people who have received their first scientific training at the Academy have later made science their life occupation.

Recognition of the value of this training was expressed in a letter recently received by the Academy's Director. It said in part:

"I feel that I must once again express my gratitude for the invaluable training our son, . . . , had in the Student Section of the Academy of Sciences during the years 1951 through 1957.

*A graduate of the
Student Section becomes
a Research Assistant.*



"During this time his chosen field was marine biology. As a result of that training, he chose zoology as his major in college, a subject in which he has been able to make easy A's . . .

"The other day in Zoology class the final examination consisted of 6 dissected animals displayed for identification by the class . . . he walked in, took one look, identified the animals and classified them, and walked out again. . . . received another A—all, he says, because he had studied those same animals in the Academy.

"I thought you might like to know of this, and that perhaps it might help to inspire some of your other young students to apply themselves and to appreciate what is offered them there. They might discover later on that what they learned, can be of inestimable value. . . ."

Student activities at the Academy, particularly in view of the present emphasis on science, need greater support and should be expanded. The fruition of this objective is dependent upon additional financial support.

SCIENTIFIC PUBLICATIONS

The Academy is best known to the scientific world nationally and internationally for its publications on technical scientific subjects. These are the end result of research work done in specific fields by members of the Academy's scientific staff. The publications are classified as Proceedings, Occasional Papers or Memoirs, depending on the subject matter and scope of reports on the results of research. This year seven numbers in the Proceedings series and two Occasional Papers were published and distributed.

An Occasional Paper of more than usual interest which was published this year was the late Joseph R. Slevin's "The Galapagos Islands—A History of Their Exploration." Mr. Slevin, for many years Curator of the Academy's Department of Reptiles and Amphibians, made this the subject of one of his many important investigations which took him not only to the Galapagos Islands themselves, but also to England, Australia and other far places for source material. This was a lifetime effort and it is to be regretted that Mr. Slevin did not live to see it in print.

Members of the staff also contribute to a number of periodicals and journals in their specialized fields. Nearly 50 such technical papers were published this year. The scientific work being done under Academy auspices is thus disseminated over a wide area and does much to enhance Academy prestige in scientific circles.

INFORMATION PROGRAM

The Academy and its scientific staff have an outstanding reputation among scientific institutions of the world for their pioneer work in scientific research and science education and the maintenance of an active public information

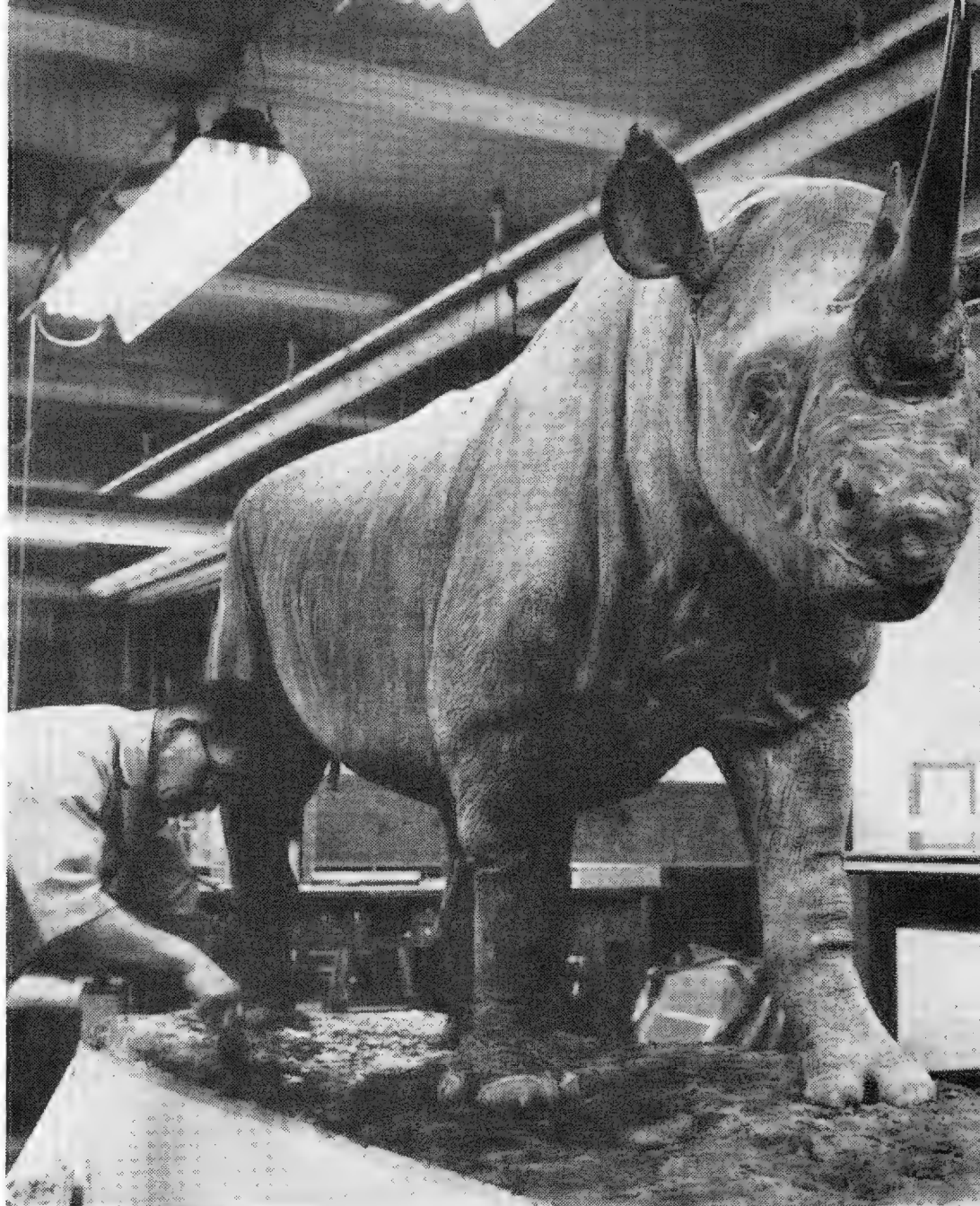
program. The Curators and their assistants play a significant role in answering questions and supplying background information in response to inquiries received from governmental, business and private sources in various parts of the world. Furthermore, as individuals they appear as guest speakers before a great variety of organizations including schools, universities, churches, hospitals, youth and civic groups, garden clubs, business associations and the military.

Six times a year the Academy publishes for its members, under the editorship of Don G. Kelley, *Pacific Discovery*, which carries the descriptive subtitle, "A Journal of Nature and Man in the Pacific World." Recently in response to public demand, arrangements have been made whereby extra copies can now



An Academy publication.

*This rhinoceros, prepared
in the Academy's Exhibits
Department, was pre-
sented by Dean Witter.*



be obtained from many of the principal newsstands not only throughout California but across the Nation.

Every month the Academy issues for its members a *Newsletter* under the editorship of Hal Richardson. This describes current developments within the Academy, announces meeting schedules, exhibits and provides other information about features of the Academy programs.

EXHIBITS

A program has been inaugurated whereby, as funds are available, many of the Academy's pictorial dioramic exhibits will be supplemented, and in some instances replaced, by exhibits designed to tell a unified story about the subject matter. This program is being headed up by the Academy's new Curator of Exhibits, Mr. Mearl Carson.

COLOR PRINTING PROCESS PERFECTED

A method of three-color offset printing which is economical for use in scientific publications has been adopted, with the cooperation of the Eastman Kodak Company, by the Academy under the guidance of Dr. G. Dallas Hanna. Samples of such printing are shown opposite page 6 of this Report. The process, probably the most revolutionary in color printing methods developed in the last 100 years, is based on work initially done under the direction of Dr. Walter Clark, Vice President in Charge of Research at Eastman Kodak Company.

MEMBERSHIP

More persons joined the Academy during the 12 months ending June 30, 1960, than in any other similar period since the Academy was established in 1853.

Through their dues, contributions and bequests, members and friends of the Academy help defray the costs of promoting a better understanding of the natural sciences. As its membership expands, providing additional funds, the Academy's research can be broadened and its contributions to society in this scientific age increased.

As of June 30, 1960, there were:

<i>Classification of Membership</i>	<i>Number of Members</i>
Regular Members.....	1,274
Family Members	311
Supporting and Sustaining Members.....	5
Annual Sponsors.....	31
Life Members.....	214
Fellows	214
Associate Members	22
Corresponding Members.....	8
Honorary Members.....	19
Patrons	62
Benefactors	2
Student Members.....	45
Business and Foundation Donors.....	110
TOTAL	2,317

FINANCE

During the year, the Academy's total funds expended exceeded those provided before donations from business organizations, foundations and others by \$98,252.20.

Two years ago, to obtain additional funds required to defray basic operating expenses for its museums and fundamental curatorial activities, the Board of

Trustees undertook three projects designed to raise additional funds to cover such costs and thereby eliminate the operating deficit.

First, to present to the executive and legislative branches of the government of the City and County of San Francisco basic information indicating costs of museums operations which should be covered in accordance with the Charter of the City and County of San Francisco by appropriations on the part of the Board of Supervisors.

Second, to increase the number of individual memberships in the Academy.

Third, to obtain annual support from business organizations and foundations for the maintenance of the Academy's curatorial activities. Corporations, business organizations and foundations which have made unrestricted contributions to the Academy in recent months are shown on page 28.

While progress has been made in all of the above directions, the Academy's programs are still compelled, by financial necessity, to be restricted to the minimum. Furthermore, the salaries of the scientific staff are regrettably below those of their counterparts in neighboring colleges and universities.

The Academy's greatest need today is for a substantial endowment, the income of which can be used to further its programs of investigation and research. This can be built by outright donations or by providing for future bequests. A suggested form for such bequests is presented on the inside back cover of this report.

An audited financial statement is presented herewith as part of this report.

DETAILS ABOUT DEPARTMENTAL ACTIVITIES

A supplemental report concerning details of the various departmental activities during the past year has been developed. Copies will be available upon request to the Director, California Academy of Sciences, Golden Gate Park, San Francisco 18, California.

CALIFORNIA ACADEMY OF SCIENCES

SCHEDULE OF SOURCES AND DISPOSITION OF FUNDS

FOR THE YEAR ENDED JUNE 30, 1960

FUNDS PROVIDED:		SOURCES	
Contributions (grants and gifts) expended for:			
Special projects	\$195,005.79		
Construction of additional facilities	25,746.61	\$220,752.40	
City and County of San Francisco for operation of Steinhart Aquarium		142,849.79	
Endowment—rentals from Commercial Building—net of \$11,028.00 for depreciation and amortization of lease cost		98,964.00	
City and County of San Francisco for support of museum activities		57,570.15	
Profit from sale of scientific publications, books, post-cards, etc., less costs of \$22,651.74		24,375.90	
Dues		22,335.00	
Planetarium, less expenses of \$65,473.45		10,029.71	
Television royalty		7,470.00	
Miscellaneous		26,826.16	
Total funds provided			\$611,173.11
FUNDS EXPENDED:		DISPOSITION	
From contributions for:			
Special projects	195,005.79		
Construction of additional facilities	25,746.61	220,752.40	
Museum, general, and administrative expenses		166,317.11	
Steinhart Aquarium operation		142,849.79	
Scientific Departments operation		110,945.48	
Publications		31,537.08	
Interest		10,888.90	
Other expenses		26,134.55	
Total funds expended			709,425.31
Excess of funds expended over funds provided before donations from business organizations, foundations, and others			98,252.20
Donations from business organizations, foundations, and others applicable to the year ended June 30, 1960			59,223.85
Net excess of funds expended over funds provided			\$ 39,028.35

ACCOUNTANTS' OPINION

California Academy of Sciences:

We have examined the balance sheet of the California Academy of Sciences as of June 30, 1960, and the supplemental schedule of sources and disposition of funds for the year then ended. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances, except that it was not practicable to extend the examination of contributions beyond accounting for the receipts as recorded.

In our opinion, based on our examination, the accompanying balance sheet presents fairly the financial position of the Academy at June 30, 1960, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year, and the accompanying supplemental schedule presents fairly the sources and disposition of funds for the year then ended.

August 12, 1960

HASKINS & SELLS

CALIFORNIA ACADEMY OF SCIENCES BALANCE SHEET, JUNE 30, 1960

ASSETS

Accounts Receivable	\$ 5,262.58	Bank Overdraft—net	\$ 11,638.35
Marketable Securities—At cost (quoted market value \$34,935.36)	34,734.35	Accounts Payable (Note 2)	58.65
Inventory of Books and Postcards—At cost	8,658.32	Accrued Interest on Note Payable of the Capital Fund	2,713.64
Unamortized Portion of Cost of Acquiring Lease On Rental Property (lease expires 1984)	16,610.50	Total	14,410.64

Total	\$ 65,265.75	General Operating Fund:	
		Balance, beginning of year	\$ 32,096.16
		Transferred from special purpose funds	98,343.93
		Total	130,440.09
		Net loss for the year	79,584.98
		Balance, end of year	50,855.11
		Total	\$ 65,265.75

LIABILITIES

GENERAL OPERATING FUND

SPECIAL PURPOSE FUNDS (Restricted as to Use)

Cash	\$ 94,543.18	Special Purpose Funds:	
Security Investments—At cost (quoted market value \$263,114.51)	251,030.46	Entomology	\$ 65,318.38
Accounts Receivable	7,876.49	Research Expeditions	60,751.02
Real Estate	22,000.00	Construction	39,478.11
		Botany	34,562.76
		Astronomy	34,140.13
		Geology	31,597.54
		Exhibition	14,266.89
		Lectures	10,004.98
		All Other	85,330.32
Total	\$ 375,450.13	Total	\$ 375,450.13

CAPITAL FUNDS

Cash	\$ 51,058.59	Note Payable to Insurance Company, 5¾%—Due October 11, 1964, deed of trust given on rental property	\$ 210,000.00
Security Investments—At cost (quoted market value \$141,193.25)	122,363.31	Capital Funds	1,508,927.87
Rental Property—net after depreciation of \$493,590.71 (pledged as security for \$210,000.00 note payable)	631,311.60		
Collections, Library, and Equipment	901,367.08		
Construction in Progress	12,827.29		
Total	\$1,718,927.87	Total	\$1,718,927.87

- Notes: 1. Buildings located in Golden Gate Park carried on the books of the Academy at \$2,341,206.44 are not shown above. Title to the buildings is vested in the City and County of San Francisco.
2. Telephone charges of \$13,305.96 billed to the Academy by the Pacific Telephone & Telegraph Company have not been paid by the Academy and have not been reflected in the financial statements pending the result of a dispute between the telephone company and the City and County of San Francisco. It is not known at this time whether the Academy or the City will be liable if the charges are ultimately deemed proper.

BUSINESS AND FOUNDATION DONORS

American President Lines	Haas & Haynie	Pacific Lighting Corp.
Ampex Foundation	Haskins & Sells	Pacific Lumber Co.
Guy F. Atkinson & Co.	The Hermann Safe Co.	Pacific National Bank
Baldwin and Howell	Hewlett-Packard Company	Pacific Scientific Company
Bank of America	Hills Bros. Coffee, Inc.	Pacific Telephone & Telegraph Co.
The Bank of California	Honolulu Oil Corp.	Pacific Vegetable Oil Corp.
J. Barth & Co.	Homestake Mining Co.	Pan American World Airways
Basic Vegetable Products Co.	Industrial Indemnity Co.	J. H. Pomeroy & Co.
Bechtel Corporation	Insurance Securities Inc.	Pope & Talbot, Inc.
Bissinger & Co.	International Business Machines Corp.	Price Waterhouse & Co.
Blyth & Co., Inc.	Irwin Foundation	Rheem Manufacturing Co.
Buckbee Thorne & Co.	Kaiser Industries Corp.	Richfield Oil Co.
C & H Sugar Refining Corp.	Charles Warren Kendrick Memorial Fund	Rothschild Raffin & Weirick
California Water & Telephone Co.	Kern County Land Co.	Safeway Stores, Inc.
California Water Service Co.	Lane Publishing Company	San Francisco Aquarium Society
California-Western States Life Insurance Co.	Lawrence Warehouse Co.	San Francisco Garden Club
Canadian Bank of Commerce	Lenkurt Electric Co.	San Jose Water Works
Coldwell, Banker & Co.	Leslie Salt Co.	Schwabacher-Frey Co.
Continental Can Co., Inc.	Levi Strauss & Co.	Shell Oil Foundation
Conyes Foundation	Lucky Stores, Inc.	Sir Francis Drake Hotel
H. S. Crocker Co., Inc.	Louis R. Lurie Foundation	Spreckels Sugar Co.
Crocker-Anglo National Bank	Mailliard & Schmiedell	J. W. Stacey, Inc.
W. H. Crocker Trust	Marsh & McLennan-Cosgrove & Co.	St. Francis Hotel
Crowley Launch & Tow-boat Co.	Atholl McBean Foundation	Swift & Co.
Crown Zellerbach Foundation	Wilson & George Meyer & Co.	Standard Oil Co. of California
The Robert Dollar Co.	Miller & Lux, Inc.	Stauffer Chemical Co.
Dow Chemical Co.	Moore Dry Dock Co.	Swinerton & Walberg Co.
Eastman Kodak Company	Morrison-Knudsen Co., Inc.	Tubbs Cordage Co.
Eaton and Smith	Fred R. Muhs Family Foundation	United States Steel Corp.
Fairmont Hotel	National Motor Bearing Co., Inc.	Utah Construction Company
First Western Bank	Roscoe & Margaret Oakes Foundation	Van Waters & Rogers, Inc.
J. A. Folger & Co.	Owens-Corning Fiberglas Corp.	Varian Associates
Food Machinery & Chemical Corp.	Pacific Coast Engineering Co.	Wells Fargo Bank American Trust Company
Friden, Inc.	Pacific Far East Line, Inc.	Wilbur-Ellis Company
W. P. Fuller & Co.	Pacific Gas & Electric Co.	Dean Witter Foundation
General Electric Company	Pacific Intermountain Express	Yellow Cab Co.
W. G. Gilmore Foundation		J. D. & Hana Zellerbach Fund
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Research Associate

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Research Associate

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Research Associate

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Research Associate

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Research Associate

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Research Associate

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Ornithology and Mammalogy

ROBERT T. ORR, *Curator*

ANATOLE S. LOUKASHKIN,
Research Associate

DORCAS E. MACCLINTOCK,
Research Associate

J. DAN WEBSTER,
Research Associate

*As of July 1, 1960

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Library

VERONICA J. SEXTON, *Librarian*

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BENJAMIN DRAPER,
Executive Producer

Instrument Shop

G. DALLAS HANNA,
Superintendent

CALIFORNIA ACADEMY OF SCIENCES

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JULY 1, 1959 — JUNE 30, 1960

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- | | | |
|-----------------------------|-----------------------------|-------------------------------|
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| Kask, Dr. John L. | Pemberton, Mr. J. R. | Williams, Dr. Howel |
| Keck, Mr. David D. | Rehder, Dr. Harold A. | Woodford, Professor A. O. |
| Keen, Dr. Myra | Revelle, Dr. Roger | |

*Deceased

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 Allyne, Miss Lucy H.
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 Bandy, Mr. George L.
 *Barkan, Dr. Hans
 Bender, Dr. William L.
 Benoist, Mr. Louis A.
 Bissinger, Mr. Newton
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 Bridgman, Dr. Olga
 Briggs, Miss Beryl C.
 Brigham, Mrs. Henry H.
 Brock, Dr. Kurt S.
 Brock, Miss Sarah C.
 Brode, Mr. J. Stanley
 Brookfield, Mr. Wallace M.
 Brooks, Mr. George W.
 *Brooks, Mr. Thomas A.
 Brot, Mr. Nathan
 Brown, Dr. Charles W.
 Brown, Miss Phoebe H.
 Brown, Mr. Walter C.
 Browning, Dr. G. L.
 Buck, Mr. Charles C.
 Bullock, Miss Ramona J.
 Burch, Mr. Iran O.
 Burch, Mr. John Q.
 Burcham, Dr. L. T.
 Burkhard, Dr. William G.
 Burkland, Dr. Carl E.
 Burt, Mr. Guthrie
 Burtis, Dr. P. T.
 Bush, Dr. Chesley
 Buss, Mr. Irvin O.
 Butler, Mr. C. P.
 Butler, Mr. James S.
 Bryce, Mr. Malcolm L.
 Cable, Dr. Sheldon G.
 Cahill, Mr. Edward G.
 Cahill, Mr. John E.
 Caldis, Dr. P. D.
 Campbell, Dr. James V.
 Cannon, Mr. Charles E.
 Cannon, Mr. Raymond
 Cantelow, Mr. H. Clair
 Carlson, Mr. Jerome
 Carlson, Mr. Orville E.
 Carr, Mrs. Jesse L.
 Carr, Mr. William A.
 Carroll, Miss Phyllis
 Carruthers, Mr. C. P.
 Carruthers, Mr. R. T.
 Carstensen, Mr. Harold K.
 Carter, Miss Lois
 Carter, Dr. W. E.
 Cary, Dr. William S.
 Case, Miss Ethel J.
 Castanera, Mr. Toribio J.
 Castel, Mr. John R.
 Cate, Mr. Crawford N.
 Centre, Mr. I. Michae
 Chace, Mr. E. P.
 Chafee, Mr. Henry S.

Chamberlain,
 Mr. Joseph P, II
 Chambers, Mr. Joseph, Jr.
 Champion, Mr. Robert L.
 Chang, Miss Mertya M.
 Chappe, Mr. William T.
 Chase, Mr. Harold S.
 Chase, Miss Pearl
 Chenoweth, Miss Gene
 Chipman, Mrs. W. F.
 Christensen, Mr. Juel L.
 Christopher, The Honorable
 George
 Christy, Miss Cicely M.
 Clark, Mr. Dana K.
 Clark, Mr. Lewis F.
 *Clark, Mr. Warner
 Clarke, Mr. James F.
 Claxton, Mr. Fritz R.
 Clay, Mr. C. I.
 Clegg, Mrs. Douglas
 Clenner, Mrs. Helen M.
 Clyde, Mr. Norman
 Coalman, Mr. Lige
 Coatsworth, Mr. James L.
 Coffee, Mr. S. R.
 Coffin, Mr. Sherwood
 Coggins, Mr. Herbert L.
 Cogswell, Mr. Howard L.
 Cohen, Dr. Nathan W.
 Cole, Dr. Chester F.
 Cole, Dr. Wilbur V.
 Coleman, Mrs. M. Ruth
 Collins, Dr. Donald C.
 Collins, Dr. George W.
 Collischonn, Mr. Philip, Jr.
 Colman, Mrs. Edward A.
 Colvig, Mr. William M.
 Compton, Mr. Eugene
 Compton, Mr. Stuart
 Conklin, Mrs. Gladys
 Conner, Mrs. R. Hormans
 Conning, Mr. Keith R.
 Conrad, Mrs. Barnaby
 Conrich, Mr. J. Lloyd
 Cook, Mr. Benning Peyton
 Cook, Mr. C. Sharp
 Cook, Dr. Edward W.
 Cook, Mrs. Ida A.
 Cooke, Dr. William Bridge
 Cooksey, Dr. Donald
 Corbus, Miss Mary Mac Rae
 Cordes, Miss Fauno
 Coulson, Dr. Walter
 Cowles, Mr. Douglas C.
 Coy, Mr. J. William
 Coy, Dr. L. P.
 Coykendall, Mr. Richard E.
 Cramer, Miss Frances L.
 Crandall, Mr. Kenneth H.
 Crane, Mr. Bruce F.

Crane, Mr. Kenneth F.
 Crane, Mr. Milton
 Craven, Mrs. Harriet P.
 Creel, Dr. Richard H.
 Creswell, Col. Harry I. T.
 Crippen, Mr. Richard A., Jr.
 Critcher, Mrs. Alan H.
 Crocker, Mr. Ruel R., Jr.
 Cronheim, Mr. S. P.
 Cronin, Mr. George T.
 Cross, Mr. R. H.
 Crossen, Miss Miriam M.
 Crowley, Mr. Thomas B.
 Currier, Mr. Farnsworth
 Curtis, Mr. Brian
 Cushing, Mrs. John E.
 Dahl, Mr. P. J., Jr.
 Dakin, Mr. John H.
 Dalke, Mr. Paul D.
 Daniels, Mr. Horace
 Danno, Dr. Vincent
 Darling, Mr. Blake
 Dasmann, Dr. Raymond
 Davidson, Mr. Forrest B.
 Davidson, Mr. George A.
 Davies, Miss Una V.
 Davis, Mr. H. Vannoy
 Davis, Miss Louise
 Davis, Mrs. Marion E.
 Davis, Mrs. Mary B.
 Davis, Mrs. Richard A.
 Davis, Mr. Robert L.
 Davis, Mr. Roland W.
 Davis, Mr. W. N.
 Dawson, Mr. Henry Clay
 Dawson, Dr. Percy M.
 Day, Mr. Leonard H.
 Day, Mr. W. C.
 Deering, Miss Ellen L.
 DeFranchi, Mrs. Robert
 Dekinder, Mrs. Martha E.
 delaHarpe, Miss Jac-
 queline E.
 Delaney, The Reverend
 E. T, Jr.
 Delareuelle, Mrs. R. R.
 Delprat, Dr. G. D.
 DeMartini, Mr. Clifton D.
 DeMoor, Miss Janice C.
 Desloge, Mr. Joseph
 Deuel, Mr. Francis
 Dewhirst, Dr. William H., Jr.
 Diaz, Sr. Antero
 Dietrich, Mr. Charles
 Dillon, Mr. William E.
 Dimmick, Mr. Leslie D.
 Dittli, Mr. Albin
 Dittman, Mr. Harold C.
 Dobbins, Mrs. Natalia P.
 Dodge, Mr. John L., III
 Dohnert, Miss Carolyn M.

*Deceased

REGULAR (Continued)

Dole, Mr. Alfred R.	Floyd, Mrs. B. C.	Gilman, Dr. P. K., Jr.
Dolese, Miss Jeanne	Follis, Mrs. R. G.	Glenn, Dr. T. H.
Dolter, Mr. William E.	Fong, Dr. Edward E.	Gnoerich, Mr. August J.
Dorgeloh, Dr. Justin R.	Forbes, Mr. Donald	Godkin, Mr. John D.
Dorsey, Miss Charlotte	Ford, Mr. Thomas L., Jr.	Goff, Mr. Othel G.
Drown, Miss V. Newell	Foree, Dr. Lynn	Gordon, Dr. Garford G.
*Drury, Mr. Aubrey	Forster, Mr. Merle	Gottfried, Dr. Samuel
Drury, Mr. Newton B.	Forster, Mr. Paul Q.	Gould, Mr. Richard S.
Duckel, Mr. Sherman P.	Foster, Mr. Charles B.	Grace, Mrs. Marie L.
Ducoing, Mr. Elmer C.	Foster, Mr. Leland	Graf, Mr. Otto Walter, Jr.
Dudziak, Mr. Joseph L.	Foster, Miss Lucile E.	Graham, Dr. Walter C.
Duff, Mr. Richard M., Jr.	Fox, Mrs. Belle K.	Grant, Mr. Arthur
Dugdale, Mr. Charles B.	Frager, Mr. Russell A.	Grant, Mr. Norman
duLac, Mr. Jean Antony	Francis, Dr. C. H.	Gray, Mr. Harold F.
Duncan, Dr. Carl D.	Frank, Mr. Louis J.	Gray, Dr. Harold F.
Dupont, Mr. Paul R.	Franklin, Mr. Roy	Graybeal, Miss Mary
Durham, Mrs. Jane R.	Fraslin, Mr. C. J.	Greeby, Mr. Raymond
Eads, Mr. Clark O.	French, Miss Muriel T.	Green, Mrs. Arthur
Earle, M. E. Cecil	Frick, Mr. Edward L.	Green, Mr. G. Homer
Ecklund, Mr. L. E.	Frick, Dr. Kenneth E.	Green, Mr. George L.
Egleston, Mrs. George P.	Friedman, Mr. Martin	Green, Mr. O. G.
Eichner, Mr. Russell	Friedman, Mr. Samuel D.	Greenberg, Mr. Stuart, Jr.
Einarson, Dr. Arthur	Frost, Mrs. Frank J.	Greenberg, Mr. Stuart, Sr.
Eising, Dr. Lucile	Fry, Mr. Donald H., Jr.	Greene, Mr. Frederick L.
Elder, Mr. Clayburn C.	Fuerstner, Dr. Paul G.	Greensfelder, Mr. Bernard S.
Eldridge, Mr. John H.	Fuidge, Miss Amy GS	Gregg, Dr. Wendell O.
Ellings, Miss Sally	Fulcher, Miss Claire	Gregory, Miss Beverly E.
Elliott, Mr. James H.	Fuller, Dr. John D.	Greuner, Mr. William
Elliott, Mr. Raymond L.	Fulton, Dr. Lee	Griep, Mr. Elmer F.
Elliott, Mr. Roy H.	Furlong, Mrs. H. W.	Griffin, Colonel Allen
Endress, Mrs. Audrey W.	Furst, Mr. Peter T.	Griffin, Mr. F. L.
Erickson, Mr. Carl E.	Gaines, Mrs. Edward F.	Griffith, Mr. James
Erickson, Mrs. Lennart G.	Galen, Mr. David J.	Grimm, Mr. Kenneth E.
Eriksen, Mrs. Arne	Galloway, Mr. Terry R.	Grinnell, Mr. Mary D.
Erskine, Dr. John M.	Galvin, Mr. John	Groeper, Mr. Don L.
Etzel, Mr. O. D.	Gamero, Mr. Antonio	Groezienger, Mr. T.
Evans, Mr. Evan C., III	Gannon, Mr. Charles W.	Grossman, Mr. Arnold A.
*Evans, Mr. J. Marshall	Gardinier, Miss Inez	Grubb, Mr. Edward H.
Evans, Dr. John Paul	Gardner, Dr. J. E.	Grunsky, Mr. Charles
*Everett, Miss Alice R.	Gardner, Mr. John E.	Grunsky, Miss Eugenia
Evers, Mrs. Albert J.	Gardner, Mr. Leo R.	Guensler, Mr. Fred R.
Everson, Mr. George	Garland, Dr. L. H.	Guittard, Mr. H. A.
Eyre, Mr. D. A.	Garner, Miss Edith	Gullikson, Mr. David M.
Fahy, Mr. Neil E.	Garrett, Mr. Benjamin F.	Gundred, Mr. Alvin C.
Falk, Dr. Doris F.	Geandrot, Mr. Robert	Gunnells, Miss Millicent
Farley, Mr. Niall Patrick	Geiger, Dr. James M.	Gurr, Mrs. Janet M.
Farrington, Mr. Charles R.	General, Mr. William Henry	Guthrie, Miss Esther L.
Fawcus, Mr. L. R.	Gerbode, Dr. Frank	Haas, Mr. Albert
Feinstein, Dr. Bertram	Gerlinger, Mr. Louis	Hadley, Mr. Mac E.
Ferris, Mr. Joel E.	Gerrard, Miss Constance E.	Hagerty, Mr. Howard
Fialho, Mr. Robert	Getten, Mr. Albert S.	Hahl, Mr. Ernest A.
Fick, Mrs. L.	Getten, Mrs. Albert S.	Haig, Mr. Thomas R.
Finn, Mr. John	Ghirardelli, Mrs. Alfred	Haken, Dr. Dorothee M.
Finn, Mr. John, III	Gibbs, Mr. Allison J.	Hale, Mr. Elwyn C.
Fisher, Mr. Charles D.	Gibson, Dr. Thomas E.	Haley, Mr. James F.
Fisk, Mr. Irving L.	Gil, Mrs. Robert	Hall, Mr. Henry S., Jr.
Fiske, Mr. Stephen B.	Gilbert, Miss Roberta	Halley, Miss Rosemary
Fitch, Mr. Kenneth R.	Gilboy, Mr. Thomas E.	Halling, Mr. Lawrence R.
Fitzsimmons, Mr. Edward R.	Gill, Mr. Philip	*Halloran, Mr. R. A.
Fleming, Mrs. Thomas	Gilliam, Mr. Harold	Halprin, Mr. Lawrence
Flint, Mr. Philip S.	Gilman, Mrs. Philip K.	Haluk, Mr. Walter A.

*Deceased

REGULAR (*Continued*)

Hambrook, Mr. Richard E.
 Hamlin, Dr. Meryvn R.
 Haney, Mr. William E., Jr.
 Hanks, Mrs. Abbot A.
 Hann, Miss Constance
 Hanna, Mrs. G. Dallas
 Hansen, Miss Dolores M.
 Hansen, Mr. H. Hilt
 Hansen, Mr. Herbert A.
 Harbison, Miss Julia
 Hardham, Mrs. John
 Harding, Mr. John G.
 Hardy, Mr. Kenneth A.
 Harger, Mr. Donald D.
 Harle, Mr. Oliver L.
 Harmon, Mrs. A. K. P.
 Harmon, Dr. Irvin
 Woodbury
 Harns, Mr. Gilbert M.
 Harrington, Dr. Donald
 Harrington, Mr. George L.
 Harris, Dr. Bernard
 Harris, Mr. Jerome A.
 Harris, Miss Velma
 Harrison, Mr. Ed N.
 Harron, Mr. Tracy W.
 Harroun, Dr. Phyllis
 *Hart, Mr. George H.
 Hart, Dr. J. L.
 Harvey, Dr. Harold I.
 Harvey, Dr. Paul A.
 Haseltine, Mr. Charles
 Hatch, Dr. Melville H.
 Hause, Dr. Donald P.
 Hausmann, Mr. A. R.
 Hawkins, Dr. Ralph
 Hayakawa, Mrs. S. I.
 Heaton, Mr. Charles D.
 Hedding, Mr. W. Clyde
 Heider, Mr. F. B.
 Heimann, Mrs. Richard
 Heimsoth, Mr. Vernon
 Heinrich, Mr. Luis S.
 Heintz, Mr. Ralph M.
 Heintz, Mr. Ralph M., Jr.
 Heinz, Mrs. Evelyn
 Hemphill, Mr. Donald V.
 Henderson, Mr. Pearson
 Hendricks, Mr. James L.
 Hendrickson, Miss Mary
 Henriques, Mr. Douglas E.
 Henshaw, Mr. Edward C.
 Henshaw, Mr. W. G.
 Herman, Mrs. Mae L.
 Herms, Dr. Frederick W.
 Herrick, Mr. Anson
 Herrmann, Mr. Walter W.
 Hertenstein, Mr. Harry A.
 Hertsmann, Mr. Walter S.
 Hevel, Miss Erline
 Higgins, Mrs. Ralph V.

Hilgard, Mrs. Henry
 Hill, Dr. Harold A.
 Hill, Mr. John C.
 Hill, Miss Rebecca
 Hinman, Dr. Allen T.
 Hinshaw, Mr. Merton E.
 Hinton, Mr. James B.
 Hirschfeld, Mr. Hermann H.
 Hirsh, Dr. Frederick, Jr.
 Hirst, Miss Minerva
 Hodges, Mrs. A. J.
 Hodges, Mr. Eldred B.
 Hoeck, Mr. John H.
 Hogan, Dr. Michael J.
 Holden, Miss Wilma
 Hollingsworth, Dr. J. B.
 Holmes, Mr. J. A.
 Holt, Mr. Parker M.
 Hood, Mr. Huston E.
 Hooker, Miss Marian O.
 Hooper, Mr. Arthur W.
 Hoover, Mr. F. O.
 Hopfer, Mr. O. E.
 Hopkins, Mr. John S.
 Hopkins, Dr. John W.
 Hopkins, Mr. L. A.
 Hopping, Mr. Guy
 Horn, Mr. Stephen
 Hosford, Dr. George N.
 Hotaling, Mr. George H.
 Houghton, Mr. Donald F.
 Howard, Miss Anne
 Howard, Mr. John K.
 Howard, Dr. Lot Duncan, Jr.
 Howe, Mr. Henry S.
 Hoyer, Mr. Fred A.
 Hoyt, Mr. F. C.
 Hubbard, Mrs. Anita Day
 Hudson, Mr. Charles D.
 Huggins, Miss Dorothy
 Hughes, Miss Eileen V.
 Hughes, Mr. Fintan J.
 Hughes, Miss Joyce E.
 Hughes, Mr. Thomas G.
 Hultgren, Dr. Herbert N.
 Hume, Mr. William M.
 Hunt, Miss Marjorie L.
 Huntington, Mrs. Clara
 Huntzicker, Miss Grace E.
 Hurd, Dr. Paul D.
 Hurd, Mr. Paul De H.
 Hutchinson, Mrs. Mary H.
 Hyman, Mr. Milton M.
 Icaza, Mr. Rafael J.
 Imlay, Mr. Alexander R.
 Inglis, Mr. Robert P.
 Inglis, Mr. Stuart J.
 Irwin, Dr. P. S.
 Isaacs, Professor John D.
 Isaacs, Mrs. Lucile
 Isenhour, Dr. Lloyd L.

Ising, Mr. George E., Jr.
 Iverson, Mrs. Olive
 Jacobs, Mrs. Bernice K.
 Jacobs, Mr. Ernest E.
 Jacobs, Mr. Fred W.
 Jacobsen, Mr. Eric C.
 Jahn, Miss Janet
 James, Mr. Charles H.
 Jameyson, Mr. Bert
 Janssen, Mr. G.
 Jarrett, Mr. Norman A.
 Jenkins, Mr. Donald A.
 Jennings, Mr. Charles W.
 Jennings, Mr. Floyd E.
 Jeschien, Mr. Otto A.
 Jesena, Miss Anne P.
 Jesseph, Miss Margaret
 Johns, Dr. Watson L.
 Johnson, Mr. Arthur B.
 Johnson, Mrs. Betty J.
 Johnson, Mr. E. S.
 Johnson, Dr. Ernest L.
 Johnson, Mr. Gerald W.
 Johnson, Miss Helen I.
 Johnson, Mr. Lawrence W.
 Johnson, Mr. Lester B.
 Johnson, Mr. Michael Paul
 *Johnstone, Mr. Clifford
 Jones, Mr. Edward B.
 Jones, Mrs. Gordon W.
 Jones, Miss Kathleen
 Jones, Mr. Kenneth D.
 Jourdan, Mr. Edgar E.
 Jump, Dr. Karolina B.
 Kamal, Professor Adel S.
 Kannry, Miss Jacquelin L.
 Kanzee, Mr. Stephen
 Karolyi, Dr. E. Joseph
 Karpenstein, Miss Katherine
 Kaye, Mr. James Mayfield
 Keeler, Dr. Nelson S.
 Keen, Mr. Frederick P.
 Kehrlein, Mr. Oliver
 Keifer, Mr. H. H.
 Kelley, Mr. Donald G.
 Kelley, Mr. H. Allen
 Kellogg, Miss Louise
 Kellum, Dr. Wilbur E.
 Kennedy, Mr. Clyde C.
 Kenney, Mr. Frederick A.
 Kent, Mr. Edward A., Jr.
 Kent, Mrs. William, Jr.
 Kershaw, Miss Sylvia T.
 Kertz, Mr. Hubert L.
 Killip, Mr. Sanford
 Kimball, Mr. Raymond S.
 Kimerer, Mr. Glenn
 King, Dr. Homer P.
 Kinsey, Mr. Eric C.
 Kirkhofer, Mr. Lynn
 Kirkwood, Mr. Robert C.

*Deceased

REGULAR (*Continued*)

Kittinger, Mr. Stewart
 Kittle, Mrs. John
 Kiyasu, Dr. K.
 Kline, Mr. Ben G.
 Klusmann, Dr. Hans
 Knemeyer, Miss Bertha C.
 Knox, Lt. Col. Cameron
 Knox, Miss Lucy Randall
 Knutsen, Miss Hylde
 Koford, Dr. Carl B.
 Kohler, Mr. John Francis
 Kolar, Dr. Francis J.
 Koster, Mr. H. W.
 Kratzer, Mr. William P.
 Krauss, Miss Ethel
 Krick, Mrs. Edwin Vernon
 Krois, Miss Mary Therese
 Krotcher, Dr. L. C.
 Kruetzfeldt, Lt. Jg James H.
 Krumm, Mr. Walter J.
 Kruse, Mr. Lawrence A.
 Kuhlenkamp, Mr. George L.
 Kumpula, Mr. Ernest A.
 Lachman, Dr. George S.
 Lack, Dr. Herbert
 La France, Dr. D. Stoughton
 Lamb, Dr. Woodburn K.
 Lamon, Dr. John Daniel, Jr.
 L'Amour, Mr. Louis
 Lamore, Mr. Walter N.
 Landels, Mrs. Edward D.
 Lane, Mr. Lawrence W.
 Lange, Mr. W. Harry
 Lanier, Mr. Robert J.
 La Plant, Mrs. Helen
 La Rivers, Dr. Ira
 Larsen, Mrs. A. E.
 Larsen, Mr. Robert D.
 Larson, Mr. A. Warren
 Larson, Miss Adeline
 Larson, Miss Esther L.
 Lathrop, Mr. Leland S., Jr.
 Lawrence, Dr. L. B.
 Lawrence, Dr. Lillian
 Lawrence, Miss Loretta
 Lawson, Dr. Homer C.
 Layton, Mr. Halsted P.
 Lee, Mr. Arthur
 Lee, Mr. Calvin Mark
 Lee, Mr. Ed
 Lembke, Miss Elisabeth C.
 Lemke, Mr. George E.
 Lemon, Miss Gertrude
 Leonard, Mr. Wayne L.
 Le Pere, Dr. O. R.
 Leschke, Dr. Hans
 Lester, Mr. O. C.
 Letcher, Mr. B. W.
 Levitin, Dr. Joseph
 Leviton, Dr. Alan E.
 Lewis, Mr. James I.

Lewis, Miss Rofena
 Lewis, Dr. Rubin M.
 Lewis, Mr. Stephen D.
 Li, Dr. Min Hin
 Lilienthal, Mr. P. N., III
 Lilly, Mrs. Donald R.
 Lindsay, Dr. George E.
 Lindsay, Dr. Stuart
 Lindsay, Miss Winifred
 Linstrum, Dr. John W.
 Lipe, Miss Lucy C.
 Lipp, Dr. Charles S.
 Lipshutz, Mr. Stanley H.
 Lisser, Dr. H.
 Littlejohn, Mr. Frank C.
 Lloyd, Mrs. Francis V.
 Lobree, Mr. Floyd
 Locher, Mr. David A.
 Locke, Mr. Augustus
 Loel, Mr. Wayne
 Lohle, Dr. Frederick
 Lohmeyer, Mrs. Edward
 London, Miss Helene
 Long, Mrs. Roberta J.
 Lorentz, Dr. Robert
 Losh, Mr. William J.
 Lougee, Mr. Frank
 Loughran, Mr. H. T.
 Louth, Mr. John D.
 Low, Dr. Jess
 Lowe, Mr. Gustav E.
 Lowrey, Mr. Charles F.
 Loze, Mr. Stebler
 Lucas, Mr. Kenneth C.
 Luckel, Miss Elsie L.
 Luckert, Mr. Walter E.
 Lucks, Mr. Lloyd F.
 Ludeman, Mrs. Ethel
 Luderer, Mr. Hans
 Lyon, Miss Carrie E.
 Lyon, Mr. Gregory S.
 Lysle, Mrs. James C.
 MacCallum, Miss Jean A.
 MacClintock, Mrs. Copeland
 MacDonald, Mrs. Lorena H.
 MacGavin, Miss Helen
 MacKinney, Professor
 Gordan
 MacNab, Mr. Keith
 Maker, Mr. Frank L.
 Malkin, Mr. Borys
 Malloch, Dr. Walter Scott
 Malville, Mr. N. J.
 Manitsas, Mr. George A.
 Mann, Mr. Jerome
 Mans, Miss Marie L.
 Marian, Dr. Joe E.
 Markell, Dr. Edward K.
 Marple, Dr. Charles D.
 Marshall, Mr. Harry
 Marston, Mr. Otis

Martenstein, Mr. T. A.
 Martin, Dr. Robert C.
 Matthias, Mr. Russell
 Mawby, Mr. Lionel S.
 May, Mr. John C.
 May, Mr. Thomas F.
 Mayer, Mrs. Charles
 Mayerle, Miss Joan A.
 Meehan, Miss Mary W.
 Mein, Mr. William
 Wallace, Jr.
 Melander, Dr. A. L.
 Melvin, Mr. William L.
 Menken, Mr. F. A.
 Menzies, Mr. J. M.
 Mercer, Miss Barbara
 Merner, Mr. Garfield D.
 Merz, Mr. Josef P.
 Meyer, Miss Estelle
 Meyer, Mrs. Grace E.
 Meyer, Mr. Luther
 Meyers, Dr. Thomas J.
 Michels, Dr. Leon M.
 Mignola, Mr. Joseph
 Miles, Miss Lorraine
 Miles, Mr. W. E.
 Milford, Mr. G. R.
 Millard, Mr. Oliver J.
 Miller, Mr. Joseph C., Jr.
 Miller, Dr. Richard G.
 Miller, Mr. Royal
 Miller, Miss Verdi
 Milnes, Miss Hattie K.
 Mitchell, Mr. David P.
 Mitchell, Mr. Harold A. C.
 Molleskog, Miss Jean V.
 Molloy, Mr. Ernest L.
 Moncrief, Mrs. Mildred
 Moore, Mr. Edwin S.
 Moore, Mr. Larry C.
 Mootz, Mr. John L.
 Morris, Mr. John V.
 Morris, Mr. Lawrence K.
 Morrison, Dr. S. H.
 Morse, Mr. Stanley W.
 Mortensen, Mr. Arnold C.
 Mosher, Mr. Roy T.
 Moss, Mr. Malcolm W.
 Mottram, Dr. William E.
 Mountford, Mr. G. E.
 Mulryan, Mr. Henry
 Muncy, Mr. Frank L.
 Munich, Mr. William
 Munson, Mrs. T. P.
 Murray, Mr. Forrest H.
 Musante, Mr. Donald E.
 McBride, Dr. Rexford
 McCann, Mrs. Walter Ray
 McClaughry, Mr. C. J.
 McClure, Dr. H. Elliott
 McCrory, Mr. L. J.

*Deceased

REGULAR (Continued)

McCulloch, Mr. Riley G.
 McDowell, Mr. Herrill E.
 McDowell, Mr. James A.
 McElligott, Mrs. Ella
 McElvare, Mr. Rowland R.
 McEwan, Miss Jean
 McFarland, Maj. J. W.
 McGuinness, Dr. Joseph S.
 McGuire, Miss Margaret
 McKee, Mrs. Marie E.
 McKibben, Dr. J. Warren
 McKinley, Mr. L. M.
 McLaren, Mr. Donald A.
 McLaughlin, Mrs. Alfred
 McLaughlin, Mr. Donald T.
 McLeod, Mr. Kenneth, Jr.
 McMahon, Mrs. Clarissa S.
 McMillan, Mr. Eben
 McSweeney, Dr. John
 Narfi, Mr. G. F.
 Nash, Mr. Edmund W.
 Neal, Mr. Newell W.
 Neff, Mr. Mitchell
 Neff, Dr. Richard S.
 Negus, Miss Cecelia
 Neil, Mrs. Edith H.
 Nelson, Mr. Arthur H.
 Nelson, Mr. L. J.
 Nelson, Mr. Lloyd F.
 Nelson, Mrs. Roy F.
 Nesche, Dr. George E.
 Ness, Dr. Vincent Thery
 Neuenburg, Mr. Andrew E.
 *Newhall, Mr. E. W., Jr.
 Nickelsburg, Mrs. M. S.
 Niebauer, Dr. John J.
 Nimitz, Fleet Adm.
 Chester W.
 Noble, Mr. Earl D.
 Noerager, Mr. A. J.
 Norback, Mr. Ernest H.
 Novick, Mr. Gabriel
 Nurmi, Miss Karen Lee
 Oberlander, Dr. George T.
 O'Brien, Dr. C. E.
 Ochsner, Mrs. W. H.
 O'Connell, Mr. Daniel J.
 O'Connor, Mr. Hugh
 Oglesby, Mr. Loris C.
 Older, Mrs. Benjamin J.
 Older, Mr. John A.
 Oliphant, Mr. David D., Jr.
 Olivia, Mr. S. Charles
 Olney, Dr. Mary B.
 Olsen, Dr. Sidney
 Olsen, Dr. William J.
 Orstein, Dr. Walter
 Orr, Mr. James A.
 Orrick, Mr. Oliver S.
 Oryall, Mr. Floyd A.
 Ostrom, Brig. Gen. Charles

Ostrom, Mrs. Charles D. Y.
 O'Toole, Mr. Richard J.
 Outler, Mr. Finn W.
 Owens, Mrs. Louise
 Owens, Mr. Reuben R.
 Packmohr, Mr. Carl
 Page, Mr. Charles Hall
 Palmer, Mr. Raymond J.
 Palmer, Mr. S. H.
 Pantages, Mr. John
 Parachini, Mr. Leo C.
 Parchim, Mr. Elden P., Jr.
 Parker, Dr. Howard R.
 Parkhurst, Mr. George L.
 Patek, Dr. Sadie D.
 Paulsen, Mr. Burt H.
 Paulson, Dr. John E.
 Paxman, Dr. D. G.
 Pearce, Mr. Owen
 Pease, Dr. M. F.
 Peattie, Mr. Donald C.
 Peck, Mr. Joseph H., Jr.
 Pedemont, Dr. Leo R.
 Pedersen, Mr. Ervin J.
 Pedersen, Miss Thea
 Pellegrini, Mr. Tullio
 Peltzer, Mr. Albert
 Pennington,
 Mr. Brownlee B.
 Pentler, Dr. Charles
 Perez, Dr. Eugene Reyes
 Petersen, Mr. B. M.
 Peterson, Mr. Charles E.
 Peterson, Mrs. Seabury
 Petray, Dr. Henry C.
 Petrilli, Dr. Alexander
 Pickard, Dr. Rawson J.
 Pierce, Mr. John G.
 Piggott, Mr. H. B.
 Pigott, Mr. John T.
 Piotti, Mrs. John
 Plant, Mr. David
 Platt, Mr. Robert A.
 Plumb, Mr. James L.
 Pogojeff, Mrs. Lydia B.
 Pollard, Mr. H. Augustus
 Pollard, Mr. Henry M.
 Poole, Mr. Cecil A.
 Portenlanger, Miss Susan
 Porter, Mrs. F. W.
 Potter, Dr. Alice
 Potvin, Mr. T.
 Poulsen, Dr. Theodore S.
 Poulter, Dr. Thomas C.
 Power, Mr. Robert H.
 Prather, Mr. Walter J.
 Pratt, Mr. Robert Y.
 Pratt, Mr. Roy A.
 *Pratt, Mr. William H.
 Pregel, Dr. Boris
 Preston, Mr. John C.

Price, Dr. Robert W.
 Prill, Mr. Donald D.
 Prime, Miss Natalie
 Pringle, Miss Cornelia C.
 Purdy, Dr. Carola B.
 Quattrin, Mr. Sante
 Quibell, Mr. Charles H.
 Quinlan, Dr. Catherine M.
 Raab, Mr. Harry J.
 Radcliffe, Mr. D. H.
 Radcliffe, Mrs. G. H.
 Raffeto, Dr. Joseph J.
 Rahardt, Miss Elizabeth W.
 Rakowicz, Mr. Maurice
 Randall, Miss Elizabeth
 Randall, Mr. Ellis R.
 Rasor, Dr. Claire
 Rausch, Mr. Robert
 Raven, Mr. Peter H.
 Raven, Mr. Ronald J.
 Ravenel, Mr. Kay J.
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 Read, Dr. J. Marion
 Read, Miss Matie H.
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 Reese, Mr. William M., Jr.
 Rehfish, Miss Carol
 Reichert, Mr. Irving F., Jr.
 Reinecke, Mr. Ray
 Reinelt, Mrs. Frank
 Reinke, Mr. Frank
 Reynolds, Mr. Lewis B.
 Reynolds, Dr. T. Eric
 Rhine, Miss Esther
 Rhodes, Mr. Taylor
 Rice, Mr. Jonathan C.
 Rice, Mr. Louis N.
 Rice, Mr. Salem J.
 Rich, Mr. Neville J.
 Richardson, Mrs. Ethel E.
 Riddervold, Mr. Gordon A.
 Rigden, Mr. Duncan L.
 Roach, Miss T. Jane
 Roache, Miss Anmarie D.
 Robb, Mrs. Esther Jacobson
 Roberts, Mr. E. V.
 Roberts, Mrs. Mary V.
 Robertson, Mr. Empey A.
 Robertson, Mrs. James H.
 Robertson, Mr. Kenneth G.
 Robertson, Mr. Richard S.
 Robie, Mr. Wendell T.
 Robison, Mr. Ansel W.
 Roche, Mr. William R.
 Rocklitz, Mr. Harold
 Rockman, Miss Wilma
 Rofen, Dr. Robert R.
 Rogers, Mr. Fletcher
 Roldan, Mr. Ernesto
 Ross, Miss Dorothy D.
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ouis, Jr.	Sewell, Mr. Thomas C.	Steinhaus, Professor
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uart A.	Shaw, Mrs. Alva L.	Stern, Mr. Ralph J. A.
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Edith	Shuman, Mrs. J. F.	Stolz, Mr. Ernst
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. William W.	Simpson, Dr. Roger G.	Sumner, Mr. Lowell
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E. W.	Sizemore, Mr. Ted	Swanson, Miss Edith
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n, Dr. Carl E.	Sovereign, Mr. H. E.	Taylor, Mr. P. E.
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Miss Doris	Spohn, Rev. Richard D., S. J.	Terwillinger, Dr. Calvin K.
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essor Herman A.	Starr, Mr. Albert C.	Thomson, Mr. Arthur C.
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E. E.	Steinemann, Mr. William H.	Tiernan, Miss Evelyn
J. W., Jr.	Steinhauer, Mr. Theodore L.	Tilden, Dr. J. W.

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 Tonnesen, Mr.
 Johannes J. N.
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 Tudhope, Mr. George V.
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 Von Gehren, Dr. E. P.
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 Westphaelinger,
 Miss Caroline
 Wheelon, Dr. Homer
 Wheeting, Lt. Col. L. C.
 Whilton, Miss Ynez Yna
 White, Dr. Elizabeth B.
 White, Mr. Leonard M.
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 White, Mr. Stewart R.
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 Wilbert, Mrs. Irene
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 Wilbur, Mr. Jourdan R.
 Wilbur, Mr. Paul C.
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Williams, Mr. George W., III
 Williams, Mr. M.
 Woodbridge
 Williams, Mr. Robert E.
 Williamson, Miss Amy
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 Wilson, Mr. Albert
 Wilson, Miss Bernice
 Wilson, Mr. Evarardus B.
 Wilson, Dr. J. F.
 Wilson, Mr. Max
 Wilson, Dr. Paul T.
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 Winkler, Mr. Paul H.
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 Wolff, Dr. Frederick S.
 Wolff, The Rev. John L.
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 Wrede, Mr. Eric
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 Wyman, Mr. Thomas S.
 Yeager, Mr. Lee
 Yoffe, Mr. Stuart A.
 Yoshino, Mr. Fred H.
 Zahler, Mr. Ernest W.
 Ziliotto, Mr. Felix
 Zimmerman, Dr. Elwood C.
 Zimmerman, Miss Jane E.
 Zischke, Mr. Herman A.

STUDENT

Anderholm, Jon
 Bergmark, Eric
 Billones, Louis
 Blackford, Michael
 Blank, Neil
 Brandorff, Rick
 Briggs, Thomas S.
 Brunswig, Fred D.
 Budgett, Carolyn
 Budgett, Harvey
 Bulf, Jeffrey Deering
 Catania, Jim
 Cavestri, Richard
 Christensen, Eric

Cushner, Charles
 Davies, William T.
 Dever, Tony
 DeWeese, James
 Elvin, David
 Evicson, James
 Fitzgerald, Kathy
 Freeman, Bob
 Galdieri, Sandra
 Green, George W.
 Harms, Richard
 Hendrickson, John
 Hennings, Darwen
 Hoyer, Joel

Jackle, Frances
 Jarrell, Gordon H.
 Joseph, Richard
 Kilcline, Mary Lou
 Klupfell, Michael
 Kirschbaum, Ed. W.
 Lazo, Douglas
 Lenn, Nancy
 Leuterio, Fria
 Leuterio, Shelagh E.
 Levin, Roger
 Linneman, Joyce
 Lowell, James
 Lundy, Pat

*Deceased

STUDENT (*Continued*)

Macklin, Robert
Martin, Robert M.
Maxemin, Fred
Morales, Joe
Murray, Brian
Murray, Joan
McCarthy, Mary E.
McGrath, Martin
Neil, Garry A.
Noonan, Robert
Novak, Charles
Penalosa, Javier
Philo, Judith
Pogre, Robert
Pugh, Norma D.

Purchase, Neal
Ralston, John
Reed, Marshall J.
Rentz, David
Roberts, Carol
Rosenberg, John
Rouse, Winslow
Ryan, Christine
San, Phyllis
Sawyer, Anne
Schlichtmann, Dan
Shannon, Patricia J.
Sheleketinsky, Alex
Shields, Karen
Silva, George

Slobodchikoff, Constantine
Thomas, Christopher
Timberlake, Arlin M., Jr.
Toschi, Catherine
Tochi, Theresa
Tracy, Claudia
Trosper, Terry
Vohryzek, Gary
Wemmer, Christen
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